

**DEPARTMENT OF TRANSPORTATION****DIVISION OF ENGINEERING SERVICES**

Office of Structural Materials

Quality Assurance and Source Inspection



Bay Area Branch  
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Contract #: 04-0120F4Cty: SF/ALA Rte: 80 PM: 13.2/13.9File #: 69.15**SOURCE INSPECTION REPORT****Resident Engineer:** Pursell, Gary**Address:** 333 Burma Road**City:** Oakland, CA 94607**Report No:** SIR-002411**Date Inspected:** 28-Feb-2010**Project Name:** SAS Superstructure**OSM Arrival Time:** 700**Prime Contractor:** American Bridge/Fluor Enterprises, a JV**OSM Departure Time:** 1900**Contractor:** Zhenhua Port Machinery Company, Ltd (ZPMC), Changxing Island**Location:** Changxing Dao, Shanghai**Quality Control Contact:** Don Walton**Quality Control Present:** Yes No**Material transfer:** Yes No N/A**Sampled Items:** Yes No N/A**Stock Transfer:** Yes No N/A**OK to Cut:** Yes No N/A**Rebar Test Witness:** Yes No N/A**Delayed/Cancelled:** Yes No N/A**Other:** Coating Inspection**Bridge No:** 34-0006**Component:** Sub-Assemblies, Office, OBG 7DW, Lift 5 W**Bid Item:** 77, 78, 79**Lot No:** B265**Summary of Items Observed:**

On this date Caltrans Office of Structural Materials (OSM) Quality Assurance (QA) NACE III coating inspector, Mr. James Lumley arrived on site at the Zhenhua Port Machinery Company (ZPMC) facility at Changxing Island in Shanghai, China. The purpose of the coating inspections are to monitor the surface preparation and coating applications for the SAS Bay Bridge project. This QA NACE III coating inspector observed the following:

**Sub-Assemblies**

Base metal surfaces of 312 pieces of assorted splice plates were washed and de-greased in accordance with SSPC SP-1 in preparation of abrasive blasting operations.

**Sub-Assemblies**

Previously undercoated surfaces of 24 Wind Vortex Plates were re-abrasive blasted to Base metal and an SSPC SP-10 condition to remove undercoat due to excessive Dry Film Thickness (DFT) of Interzinc 22 undercoat which was non-compliant with the contract documents.

**OBG 7DW**

ZPMC requested internal inspection and (DFT) verification check on the internal undercoated surfaces for identification of repair areas. Also ZPMC personnel resumed Interzinc 52 organic zinc undercoat application to the internal surfaces of the bolt holes.

**Lift 5 East**

Internal repairs were performed on the Bottom Plate "T" stiffeners from Panel Point 32-33 and also on the Side Plates and Bottom Plate from Panel Point 33-34. Repairs consisted of abrasive blasting base metal areas which exhibited rust and corrosion to an SSPC SP-10 condition and also abrasive blasting rust stain from undercoated areas to remove affected staining. Interzinc 22 undercoat was re-applied. Dehumidification was incorporated to control atmospheric conditions and sustain suitability for application.

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## SOURCE INSPECTION REPORT

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### Office

Attend to project files and documentation.

Note: All inspections were performed jointly with ABF & ZPMC QA/QC representatives and Caltrans QA Lumley when achievable. International Protective Coatings technical service representative were available for inspections and consultation.

### Summary of Conversations:

No relevant conversations on this date.

### Comments

This report is for the purpose of determining conformance with the contract documents and is not for the purpose of making repair or fit for purpose recommendations. Should you require recommendations concerning repairs or remedial efforts please contact Eric Tsang (858) 699-9549, who represents the Office of Structural Materials for your project.

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<b>Inspected By:</b>	Lumley,James
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Quality Assurance Inspector
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<b>Reviewed By:</b>	Peterson,Art
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QA Reviewer
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